Attorney Docket: 2775/105 Application 10/723,030

Response to Office Action of November 13, 2008

The Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1.-5. (Canceled)

6. (Currently amended) Radiotherapy apparatus comprising:

a two-dimensional imager responsive to imaging radiation and generating a two-

dimensional imaging output;

computing means for processing the imaging output to produce tomography data

including a plurality of intersecting sectional views, each sectional view being an image

containing pixels with values derived from <u>averaging</u> a plurality of voxels in the tomography

dataset which are disposed transverse to the corresponding section; and

a therapeutic source controllable in response to feedback from the tomography data and

producing therapeutic radiation.

7. (Previously presented) Radiotherapy apparatus according to claim 6 in which the plurality of

voxels are disposed orthogonal to the corresponding section.

8. (Original) Radiotherapy apparatus according to claim 6 in which the plurality of voxels are

disposed linearly.

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9. (Previously presented) Radiotherapy apparatus according to claim 6 in which between 5 and

20 voxels are employed.

10. (Previously presented) Radiotherapy apparatus according to claim 6 in which between 7 and

15 voxels are employed.

11. (Previously presented) Radiotherapy apparatus according to claim 6 in which about 10 voxels

are employed.

12. (Previously presented) Radiotherapy apparatus according to claim 6 in which there is a

display means for showing the sectional views.

13. (Original) Radiotherapy apparatus according to claim 12 in which the therapeutic source is

controlled on the basis of instructions from an operator, given via an input means.

14. (Previously presented) Radiotherapy apparatus according to claim 13 in which the input

means is correlated to the display means.

15. (Previously presented) Radiotherapy apparatus according to claim 14 in which the correlation

is via a superimposed image on the display means which is moveable in response to operation of

the input means.

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16. (Original) Radiotherapy apparatus according to claim 15 in which the superimposed image is

derived from one of a previous investigation and a treatment of the patient.

17. (Original) Radiotherapy apparatus according to claim 15 in which the superimposed image is

an outline.

18. (Previously presented) Radiotherapy apparatus according to claim 6, in which the sectional

views are arranged orthogonally.

19. (Previously presented) Radiotherapy apparatus according to claim 6, in which at least three

sectional views are prepared.

20. (Previously presented) Radiotherapy apparatus according to claim 19, in which the views

intersect substantially at the isocenter of the therapeutic source.